



United Appeal's Toronto goal is \$12,850,000

The United Appeal for Metropolitan Toronto chooses a slogan each year: last year's was, "Lucky you — give to United Appeal", previous years' included "Big City — Big Need", "A big city needs big people," and "One gift works many wonders." This year the U.A.'s volunteer professionals in the media came up with "Miracles cost money."

Then a provincial election was called for Oct. 21, right in the middle of what will be the most strenuous period of fund-raising, which this year runs from Sept. 27 to Nov. 5. There were emergency meetings, party leaders were asked for special messages of support for the Appeal, and a new slogan was devised: "Give before you vote."

This illustrates how seriously Toronto's United Appeal people look upon outside conditions. And well they might, because even though the goal this year — \$12,850,000, the largest in Canada and 12th largest on the continent — falls short of what the 78 member agencies have asked for, it is as much as the Appeal's economic advisers would recommend in the light of today's economic climate.

The 1971 objective is \$100,000 more than last year's goal, \$750,000 more than last year's achievement — because the 1970 campaign fell a little short. This was unusual, and the 40,000 volunteers are determined that it will not happen again, despite economic conditions.

Among those determined volunteers are U of T's United Appeal campaign team: Co-ordinator, Prof. Ross Lord, and co-chairmen, Vice-President Frank Stone, and Dean James Ham.

James C. Thackray, executive vice-president of Bell Canada Ltd. and this year's campaign chairman for Toronto's United Appeal, puts it this way: "It will take all our energies to make our goal, which is a minimum if we are going to be able to continue to provide significant help to those who need it."

Faculty is invited to love poetry seminar

The Department of Comparative Literature is sponsoring a graduate weekly seminar on the classical love poetry of ancient Persia, China and India, in translation. No specialized knowledge is required.

The courses will be taught by Profs. Wickens, Dobson and Masson. Since questions on the theory of translation are likely to form an important part of the work of the seminar, the Canadian poet John Newlove will participate and provide verse translations of many of the poems discussed in the seminar.

Interested members of the faculty and of the undergraduate body are invited to participate in this experimental course.

Please contact: Department of Comparative Literature (6363); Prof. Masson (3299) in Sanskrit and Indian Studies, or Prof. Wickens (3306) in Islamic Studies.

OCTOBER 7 DEADLINE

University of Toronto Bulletin is published by the University News Bureau, Room 225, Simcoe Hall. All material for the next issue should be in the hands of the editor, Mrs. Winogene Ferguson (928-2102) by noon today. The next editorial deadline is noon, October 7.



DR. ADRIAN G. BROOK is now chairman of the Department of Chemistry. For story see page 3.

How International Studies have developed in 5 years

The International Studies Program has provided the Bulletin with the following summary of its activities and achievements in the first five years of operation under the chairmanship of Prof. R. C. Pratt. Prof. Harold Nelson was appointed acting chairman on July 1.

The International Studies Program was organized under the aegis of the President's Office in 1966 "to facilitate, co-ordinate and further promote graduate studies and research relating to international relations and to the particular and comparative study of foreign areas in each case with primary reference to the modern period", as President Bissell explained in his statement inaugurating the Program. It was thought then that, because of the growing interdependence of the world community, the purposeful and increasing involvement of Canada in international affairs, our heavy dependence on world trade, and our exposure to nuclear destruction in the event of a third world conflict, Canadian universities should give a wider international definition to their teaching and research in the social sciences and re-

lated disciplines. Canadian universities should equip more of their graduates with a knowledge of contemporary international politics and with the intellectual training needed for an understanding of foreign areas which are culturally and economically vastly different from our own. It was recognized that a major program of graduate teaching and research in international studies is feasible at only a few Canadian universities, and that a major library, a significant group of scholars in the relevant disciplines, and a substantial graduate school are necessary prerequisites. Therefore, it was decided to focus attention on this area at the University of Toronto, and the International Studies Program was born.

The I.S.P. is concerned primarily with modern international studies in the social sciences, history, law and related disciplines, and it facilitates inter-disciplinary co-operation and provides supplementary services and facilities to graduate students and academic staff. The Departments carry the main responsibility for the organization, and teaching of courses, the admission of graduate students, and the promotion of research in the international aspects of their disciplines.

Activities and Projects

Under the chairmanship of Prof. R. C. Pratt, the I.S.P. since 1966 has substantially assisted the development of international studies at this university. Each year it has awarded research grants to professors and students to pursue studies abroad, and has awarded fellowships for study here. In 1970-71 these grants and fellowships totalled \$58,307.00.

The budget of the I.S.P. has included some \$20,000 each year for academic salaries over and above the contribution which the Program makes to the salary of its chairman. These funds have been used in a variety of ways. They have financed the appointment of a visitor in an area not yet represented at the University (for example, Leonard Beaton's appointment in Foreign Policy and Strategic Studies in 1967-68 and Prof. Martin Klein's appointment in African History for 1970-72). They have contributed to the financing of extended visits by noted academics of particular interest, including Dr. Boziden Bakotic, a Yugoslavian international lawyer interested in comparative federalism; Dr. Pavel Pelikan, a Czech economist, and Prof. K. Takenaka, a Japanese sociologist. Finally, they have provided the initial financing of a departmental appointment in a field within international studies which is presently under-represented at the University. John Holmes' part-time appointment in the field of Canadian Foreign Policy and the appointment to the Department of Political Economy of Dr. Douglas Johnston, a scholar of international law and modern China, were each financed initially by the I.S.P.

The International Studies Program has
(See page 4, col. 1)

DUA is now Department of Colleges & Universities

On Oct. 1, the Ontario Department of University Affairs becomes the Department of Colleges and Universities when Bill 98, The Department of Colleges and Universities Act, 1971, is proclaimed. Under the Act, the new Department will be responsible for all publicly supported post-secondary education in Ontario, including the 20 colleges of applied arts and technology, Ryerson Polytechnical Institute, the provincially assisted universities and related cultural institutions.

COMING EVENTS

SEPTEMBER

30 THURSDAY

Official Opening

SLOWPOKE Nuclear Reactor Facility — Technical Symposium: "Features of a SLOWPOKE Reactor", Dr. J. W. Hilborn, AECL; "Applications for SLOWPOKE in the University", Dr. R. E. Jervis; "Reactors and Man", Dr. John Rundo (Keynote speaker), Centre for Human Radio Biology, Argonne National Laboratory, Chicago. 3154 Medical Sciences Bldg. 2 to 4 p.m.

Official opening ceremony, Room 101 A, Mill Building. 4.15 p.m.

Reception. Alumni Lounge, 2nd floor, Medical Sciences Building. 5 p.m.

Seminar Environment

"Environment and the Technological Order" (a sociological analysis of the environmental issue with respect to technology). Prof. F. H. Knelman, Sir George Williams University. 211 (Council Room) Mill Building. 4 p.m. (Environmental Sciences and Engineering)

Lecture Music

"String Pedagogy and Its Relation to Quality Education". Prof. David Mankovitz. Concert Hall, Edward Johnson Building. 2 p.m. Free. (Music)

Entertainment

SAC pub in Sidney Smith Hall open Thursday and Friday from noon until midnight. Faculty and staff are cordially invited.

OCTOBER

1 FRIDAY

Colloquium Chemistry

"The Mechanism of Olefin Hydration". Prof. A. J. Kresge, Illinois Institute of Technology. 158 Lash Miller Chemical Laboratories. 4 p.m. (Chemistry)

Theatre

Pirandello's "To Clothe the Naked" directed by Desmond Scott. Oct. 1 to 16. Hart House Theatre. 8.30 p.m. Tickets \$3.50; students \$1.75. Telephone 928-8668 (Drama Centre)

Party

Wine and cheese party at Graduate Students' Union. All graduate students welcome. 4 to 7 p.m.

2 SATURDAY

Athletics Meeting Microbiology

Soccer. Western at Varsity. Varsity Stadium. 2 p.m.

Annual joint meeting of Canadian Society of Microbiologists, Central Ontario Branch, and the Western Ontario Branch. Symposium on Changing Patterns in Infectious Diseases of Man and Animal. Public Health Laboratories, Ontario Department of Health, Resources Road, Toronto. 9.15 a.m. For more details call or write Dr. V. Victor Kingsley, Scarborough College, West Hill. Telephone 284-3268.

3 SUNDAY

Talk Fossils

"Of Miocene Mice". Loris Russell, who has spent four seasons in southern Saskatchewan collecting fossils. ROM Theatre. 2.30 p.m. Free with Museum admission.

5 TUESDAY

Lectures Literature

"Metaphor" series — "The Limits of Metaphor". Francis Sparshott, U of T. 106 U.C. 4.30 p.m. (Graduate Program in Comparative Literature)

Chemistry

"Energy Distribution in the Reactions of Ions in Gases". Prof. J. L. Franklin, Rice University. 162 Lash Miller Chemical Laboratories. 4 p.m. (SGS and Chemistry)

Astronomy

"Recent Work on the Cosmological Distance Scale". Dr. Gustav Andreas Tammann, Hale Observatories and Basel University in Basel, Switzerland. David Dunlap Observatory, Richmond Hill. 4 p.m. (SGS and Astronomy)

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Embargo on graduate programs discussed at first COU meeting

The Council of Ontario Universities (formerly Committee of Presidents of Universities of Ontario) held its first meeting for the current year on Sept. 17. Accompanying Dr. Sword was Prof. Keith Yates of the Department of Chemistry, who was chosen to be the U of T's second representative to COU by the other elected members of the President's Council.

In a crowded agenda, the topic of greatest interest to this University was the modification of the province's embargo on new graduate programs. This embargo was announced in March, 1971, by the Minister of University Affairs; the purpose was to ensure that in addition to a successful academic appraisal a new program would have to meet a well-defined need in the provincial system. Such need would ordinarily be established by a comprehensive study of the discipline involved — a "discipline assessment" or "planning assessment". (Two proposals from this University — a Master's Degree in Criminology and a Ph.D. in Library Science — were caught by the embargo. An appeal procedure exists, but in neither case were we successful.)

The Council of Ontario Universities was informed that recommendations for modifications in the Provincial Government-imposed blanket embargo on new graduate programs have been worked out by a joint CUA/COU Subcommittee on Graduate Goals and Policies and are reportedly assured of acceptance by the Government's Committee on University Affairs.

Instead of the blanket embargo, certain disciplines are to be placed on an "embargo list" for a limited time so that a planning assessment may be made. (The best-known planning assessment in Ontario so far is the Lapp Report, a study of Engineering education, published recently under the title *Ring of Iron*.) In other disciplines, where the desirability of province-wide planning is not evident, new programs will need only a successful appraisal.

The proposed embargo list follows:

English	72-73
History	71-72 or 72-73
Religion	71-72 or 72-73
Economics	71-72*
Geography	71-72
Planning & Environmental Studies	71-72
Political Science	72-73
Psychology	72-73
Sociology, including Criminology	71-72*
Chemistry	71-72
Geology & other Earth Sciences	71-72
Physics	72-73
Business, Administration and Management Science	71-72 or 72-73
Physical Education, Kinesiology and Related Areas	71-72 or 72-73

Education	71-72*
Library Science	71-72*

*Planning assessment has already been authorized.

The dates shown are suggested times for beginning the planning assessments. A university may appeal directly to the Committee on University Affairs if it believes that it has a case for starting some program before the planning assessment is completed. A university may also reopen a proposal that has been negatively decided if it believes that it has a good case. In considering whether the university's case is a good one or not, the following factors are important from the planning viewpoint:

(a) Demand for the program from Canadian students. This will require assessment of overall demand for similar programs, and an effort to determine what fraction of the demand may be attracted to the new venture. The quality of staff and program relative to existing programs enters into this evaluation.

(b) Effect on existing programs. If it will endanger the viability of existing programs, this must be noted. An important factor in considering how to respond to the finding under this heading would be the finding under (a) concerning relative quality and under (c) concerning innovation.

(c) Innovative features.

(d) Employment opportunities for the graduate of the program. The perception of this factor, of course, has its impact on factor (a), the student demand, but they are separable and probably should be separated in considering the "need" for the program.

(e) Need to stimulate development of areas of research and specialized competence.

(f) The university "matrix" in which the proposed program will lie — i.e. the strengths of related departments, the university's plans, inter-university arrangements.

(g) The degree to which the proposal makes use of the provincial "system", and of correlated strengths of more than one university.

(h) Library and/or laboratory resources available.

Of course, various of these factors need examination also from the academic viewpoint and, amongst others, are also considered by the Appraisals Committee.

Besides the first four planning assessments (Economics, Sociology, Education and Library Science), the following have also been recommended by the Ontario Council on Graduate Studies and authorized by the Council of Ontario Universities, subject to the availability of the necessary resources:

- Social Geography with Planning and Environmental Studies,
- Chemistry,
- Earth Sciences, including Geology, Physical Geography, Geophysics and Geochemistry,

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COMING EVENTS

OCTOBER (Continued from page 1)

7 THURSDAY

Lecture *Physiology* "The Adrenergic Theory of Shock Revisited". Dr. E. D. Jacobson, University of Texas, Houston. 3227 Medical Sciences Building. 4 p.m. (Physiology)

8 FRIDAY

Dance Dancing to a live band at Graduate Students' Union. All students welcome. 9 p.m. to 1 a.m. \$1.
Athletics Football. Carleton at Varsity. Varsity Stadium. 7.30 p.m.

9 SATURDAY

Athletics Rugged. York at Varsity. Back Campus. 11 a.m.

12 TUESDAY

Seminar *Medicine* "The Neural Image Approach to Human Vision". Dr. Peter Hallett, Room 3171 Medical Sciences Building. 5 p.m. (Neuroscience Committee and the Toronto Neurological Society)

13 WEDNESDAY

Lecture *Literature* "Metaphor and The Main Problem of Hermeneutics". Paul Ricoeur, Université de Paris. Room 106 U.C. 4.30 p.m. (Graduate Program in Comparative Literature)
Seminar *Engineering* Second in series "Role of the Engineer in Society". Prof. G. Sinclair. G-202 Galbraith Building. 4.10 p.m. Students and staff from all faculties are welcome. (Applied Science)

14 THURSDAY

Lecture *Decorative Arts* "The Lee Collection". Yvonne Hackenbroch, Curator of Western European Arts, New York Metropolitan Museum. Room 4 ROM. 8.30 p.m. Admission \$1.50. ROM members free.

15 FRIDAY

Lectures "Archeology, Money and Medicine". Dr. Gerald D. Hart, East General Hospital. 102 McLennan Physical Laboratories. 12 noon. A general discussion will follow. (History and Philosophy of Science and Technology)
Environment "Educational Environmental Management". Prof. L. J. Mostertman, International Hydrological Decade. Council Room, 211 Mill Building. 10 a.m. (Environmental Sciences and Engineering)
Party Wine and cheese party at Graduate Students' Union. All graduate students welcome. 4 to 7 p.m.

18 MONDAY

Lecture *Religion* First in series of three Larkin-Stuart Memorial Lectures by The Archbishop of Canterbury, Dr. Michael Ramsey. "God and the Bible". Seeley Hall, Trinity College. 8.30 p.m. Free (University of Trinity College and St. Thomas' Anglican Church)

19 TUESDAY

Lecture *Religion* "Jesus Christ and History". The Archbishop of Canterbury. Seeley Hall, Trinity College. 8.30 p.m. Free.
Seminar *Medicine* "Electrical Control of Ciliary Motion". Dr. Roger Eckert, Department of Zoology, University of California, Los Angeles. Room 3171 Medical Sciences Building. 5 p.m. (Neuroscience Committee and the Toronto Neurological Society)

Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. Oral Examinations.

Friday, October 1

D. R. Letson, Department of Medieval Studies — English. "The Vernacular Homily and Old English Christian Poetry: A Study of Similarities in Form and Image". Thesis supervisor: Prof. L. K. Shook. Room 108, 16 Hart House Circle. 2 p.m.

V. A. Cizmadia, Department of Chemistry. "Reaction Mechanism of the Addition of Arylsulfonyl Chloride to Olefins". Thesis supervisor: Prof. G. H. Schmid. Room 107, 16 Hart House Circle. 2 p.m.

Monday, October 4

Mrs. J. Couchman, Department of French. "Some Twentieth-Century Responses to Montaigne". Thesis supervisor: Prof. J. A. Walker. Room 107, 16 Hart House Circle. 10 a.m.

Wednesday, October 6

H. Becker, Department of Medical Biophysics. "Studies on the Cellular Quiescent State in Culture". Thesis supervisor: Prof. C. P. Stanners. Room 107, 16 Hart House Circle. 10 a.m.

Thursday, October 7

F. Mistry, Department of German. "Hugo von Hofmannsthal: A Study of his Relation to East Asia and its Significance for his Development". Thesis supervisors: Profs. D. Joyce and H. Eichner. Room 107, 16 Hart House Circle. 3 p.m.

G. W. Bird, Department of Geology. "Metamorphic Reactions in the System K₂O-MgO-Al₂O₃-SiO₂-H₂O At Water Pressures to 10 Kilobars". Thesis supervisor: Prof. J. J. Fawcett. Room 107, 16 Hart House Circle. 10 a.m.

Friday, October 8

L. R. Abbey, Department of English. "Images of Interrelation in Shelley's Major Poetry". Thesis supervisor: Prof. M. T. Wilson. Room 108, 16 Hart House Circle. 2 p.m.

B. Holub, Department of Biochemistry. "Inter-Relationships in Phospholipid Metabolism". Thesis supervisor: Prof. A. Kuksis. Room 108, 16 Hart House Circle. 2 p.m.

Tuesday, October 12

W. F. Payne, Department of Aerospace Studies. "Characteristics of an Argon Free Jet Expanded from a High Pressure Inductive Arc Source". Thesis supervisor: Prof. J. H. de Leeuw. Room 107, 16 Hart House Circle. 2 p.m.

Thursday, October 14

W. B. Ingalls, Department of Classics. "Studies in Homeric Formulae". Thesis supervisor: Prof. W. E. McLeod. Room 108, 16 Hart House Circle. 2 p.m.

D. R. Broomes, Department of Educational Theory. "Psychological and Sociological Correlates of Mathematical Ability and Achievement". Thesis supervisor: Prof. G. Evans. Room 107, 16 Hart House Circle. 2 p.m.

F. D. Herman, Department of Educational Theory. "The Proximity of Personality and Cognitive Factors in Indian Students". Thesis supervisor: Prof. R. P. McDonald. Room 108, 16 Hart House Circle. 10 a.m.

W. G. Harman, Department of Educational Theory. "Policy Models for Planning Teacher Manpower". Thesis supervisor: Prof. G. Tracz. Room 201, 65 St. George Street. 10 a.m.

H. W. Yeung, Department of Chemistry. "Studies in the Bicyclo [3.1.3] — And Bicyclo [3.2.0] — Heptan-6-One Series". Thesis supervisor: Prof. P. Yates. Room 201, 65 St. George Street. 2 p.m.

T. P. Bagchi, Department of Industrial Engineering. "Contributions to the Theory of Bulk Queues". Thesis supervisor: Prof. J. G. C. Templeton. Room 107, 16 Hart House Circle. 10 a.m.

Friday, October 15

O. T. Woo, Department of Metallurgy and Materials Science. "Dispersion Strengthening in Copper — Electron Microscope Studies". Thesis supervisor: Prof. B. Ramaswami. Room 107, 16 Hart House Circle. 2 p.m.

Monday, October 18

Miss M. R. Kirkcaldy, Department of Hygiene. "A Study of the Physiology of Pregnancy in the Rat: The Production of Slow Alpha₂-Globulin". Thesis supervisor: Prof. G. H. Beaton. Room 108, 16 Hart House Circle. 2 p.m.

Renewals needed for all staff who would like magazine free

The system initiated last year whereby all members of the academic and non-academic staffs who complete a coupon will receive the University of Toronto *Graduate* at no cost is being continued for 1971-72.

In view of new appointments, promotions, and other changes in most departments, last year's complimentary list cannot be used. Because of the general belt-tightening, we lack staff to put a tracer on every name.

Therefore, even those who completed coupons last year, and who would still like to see periodicals produced primarily for people outside the University, are asked to complete and return the coupon printed below.

Please complete and return to the University News Bureau, Simcoe Hall
Put me on the U of T *Graduate* free list for 1971-72.

MR., MISS, MRS., DR., PROF. (PLEASE PRINT).....
University rank or category.....
University or professional address.....

The U of T *News* is addressed mechanically to all alumni (graduates or former students) for whom the University has addresses. If you are *not* an alumnus and would like to receive the *News* without cost, please check here ☐

A G Brook appointed chairman of Department of Chemistry

Dr. A. G. Brook has been appointed chairman of the Department of Chemistry. He became associate chairman of the department in 1968 and has been acting chairman since 1969, when Dr. D. J. LeRoy was granted leave of absence to fill a vice-presidential appointment in the National Research Council of Canada.

Adrian G. Brook was born in Toronto, May 21, 1924. He obtained his B.A. from the University of Toronto in 1947 and was awarded his Ph.D. in 1950. He then joined the University of Saskatchewan as a lecturer.

In 1951, Dr. Brook was granted a Nuffield Fellowship at the Imperial College of Science and Technology in London. After spending a further year as a research fellow at Iowa State College, he joined the University of Toronto as a lecturer in 1953. He was appointed assistant professor in 1956, associate professor in 1960 and professor in 1962. In 1966-67, he spent six months leave at Princeton as a National Research Council senior research fellow.

Dr. Brook is the author or co-author of nearly 80 scientific papers. His interests lie primarily in the area of organo-silicon and organo-germanium chemistry, where he has been studying what happens in a complex carbon compound when one or more of the carbon atoms is replaced by atoms of germanium or silicon. He has investigated both the synthesis and the chemical reactions of such compounds, including those caused or helped by light radiation. Compounds of this sort have attracted much interest, recently, because of quite unexpected and surprising biological qualities that some of them demonstrate, including bactericidal action and the power to damage certain tissues in higher animals.

Dr. Brook's many administrative and committee activities have included the School of Graduate Studies, the Tenure and Promotions Board, the Library Committee, the Undergraduate Curriculum Committee, and the Computer Committee.

Dr. Brook is married. The Brooks have two boys and a girl.

STAFF NOTES

St. Michael's College

PROF. FRANÇOIS DES ROCHES represented St. Michael's College at the 13th Congrès Internationale de Linguistique et Philologie Romanes at Laval University, Quebec City, from Aug. 29 to Sept. 5. Prof. Des Roches was invited to the University of Prince Edward Island to teach linguistics during the summer.

Erindale College

PROF. ROGER BECK defended his doctoral thesis at the University of Illinois on June 11. His thesis title is "Meter and Sense in Homeric Verse".

DAVID BLACKWOOD received the Nicholas Hornyansky Memorial Award at the exhibition "International Graphics '71", given by the Montreal Museum of Fine Arts from June to August. This is one of three awards made at the exhibition, and is the only one granted to a Canadian. Forty countries participated and one hundred prints were selected from 4,000 entries. Mr. Blackwood's winning print was "Abandoned Ancestors on Bragg's Island" which he recently completed at Erindale College.

PROF. D. J. DUNLOP has received a grant from the Geological Survey of Canada to make a paleomagnetic and rock magnetic study of the Glamorgan gabbro, near Gooderham, Ontario. Rocks in this part of the Precambrian Shield were metamorphosed in the Grenville orogeny 900 million years ago, but it may be possible to recover fresh parts of the Glamorgan intrusive.

SILAS NWACHUKWU, a Toronto Ph.D., assistant professor at the University of Eastern Nigeria, is spending the summer studying at Erindale College on a sabbatical leave from his own country.

DEAN E. A. ROBINSON attended the Canadian Educational Communications conference in Edmonton from June 28-July 1. He was elected as a delegate of the Canadian Science Film Association to the Council of the C.E.C.C.

H. L. SMITH and MRS. M. FRIEND (Head of Public Services for the Library) attended the annual meeting of the Canadian Library Association in Vancouver June 19-25.

PRINCIPAL J. T. WILSON attended the annual meeting of the Royal Society of Canada at Carleton University June 6-9. On June 11 he gave the banquet address held at the conclusion of an International Symposium on Atherosclerosis sponsored by the Ontario Heart Foundation and the Department of Medicine of the University of Toronto.

Medicine

DR. P. C. WALFISH gave a scientific paper on "A Rapid Screening Test of Adrenocortical Function Using a Synthetic Corticotropin" at the annual meeting of the Clinical Research Society of Toronto, May 15. He visited the Harbor General Hospital Endocrine Research Laboratories, Torrance, Calif. June 17 and 18; attended the annual meeting of the American Diabetes Association held June 22 and 23 in San Francisco; and attended the annual meeting of the American Endocrine Society, June 23-26, also in San Francisco.

DR. MICHAEL LENCZNER gave the follow-

ing lectures on Aug. 28 by invitation of the Board of Overseas Missions, Bible College, Peterborough: "Physical and Mental Health in the Tropics and Under-developed Countries"; "Man: Host in the Life Cycles of Helminths"; "Canadian Public Health Rules and Canadian Nutrition Requirements Compared with Under-developed Countries"; "Immunizations"; "Malaria Suppres-sives"; and "Chemotherapy in Helminthiasis".

Applied Science and Engineering

DEAN J. M. HAM has been appointed a member of the Board of Governors of the Ontario Research Foundation. In June he attended, at Varna, Bulgaria, the Congress of the World Federation of Engineering Organizations to present a report of its Committee on Engineering Education of which he is chairman. He has been appointed to the "Comité d'expertise" of "Operation Sciences Appliquées", a study of education being conducted in the Province of Quebec by the Department of Education in cooperation with the Council of Universities.

PROF. D. G. ANDREWS, who has returned from sabbatical leave, was re-appointed education chairman of the American Nuclear Society, Niagara Finger Lakes Section, and organized a seminar on nuclear education at McMaster University. He was elected president of the Youth Science Foundation of Canada and represented the YSF at the 10th Canada-Wide Science Fair, University of Alberta, where he also organized and moderated a UNESCO-sponsored student panel discussion on the environment. He attended the Canadian Congress of Applied Mechanics, Calgary, and read two papers on boiling phenomena.

PROF. W. JANISCHEWSKYJ, from July 18 to 24, attended the Summer meeting of the IEEE Power Engineering Society held in Portland, Ore. As chairman of the Steering Committee and of the Working Group No. 3, he participated in activities of the Radio Noise Subcommittee and its working groups. In the same capacity he also attended the meeting of the Transmission and Distribution Committee. As member for Region 7 (Canada) he took part in meetings of the Chapters Committee, at which assistance to local activities of the Power Engineering Society was the primary topic of discussion. As a discussor from the floor he participated in the panel meeting on the "Philosophy of High Power Testing". On July 24 Prof. Janischewskyj was one of the group of about forty from the five continents, who took part in the technical visit to the construction site of the new (third) power house at the Grand Coulee Dam on the Columbia River.

Forestry

PROF. Z. KORAN presented the following papers at the annual meeting of the Forest Products Research Society in Pittsburgh, on June 28 and 29: "Scanning Electron Microscopy of Plywood Glue Lincs" and "Gum Formation in Yellow Birch".

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LIBRARY NEWS

Seven staff librarians have been nominated by the Chief Librarian to serve on the Library Council for 1971-72. The four regular members are: RITVARS BREGZIS, DAVID G. ESPLIN, HERBERT C. SHOLLER and MISS PHYLLIS PEACH. Three have been appointed as assessors: MRS. MAUREEN HUTCHINSON, MISS AMY SMITH and MISS ADELE ANNETT.

The Chemical Titles pilot search project offered by the University of Toronto Library for the past few years has been discontinued and replaced by the Selective Dissemination of Information (SDI) Services now offered by the National Science Library.

The Library's Science and Medicine staff, trained as search editors, handle liaison with NSL and administer the "profiles" of faculty members who use the service. Although users are billed directly by NSL, responses to the searches are initially being sent through the University Library until each user's profile is set.

Through this cooperative venture, University of Toronto faculty members will have access to the National Science Library's computer-based searching services which include Medlars, Chemical Titles, Chemical Abstracts Condensates, ISI Citation Tape, INSPEC (Science Abstracts), and Biological Abstracts.

In Ottawa, on June 14, R. H. Blackburn, Chief Librarian and D. G. Esplin, Associate Librarian, presented a Brief to the Ontario Royal Commission on Book Publishing. Their submission was lauded by the Chairman and members of the Commission as being "enormously useful and extremely

well prepared" and "remarkably thorough . . . and extremely valuable."

The Brief deals with the questions of photocopy and book purchasing as seen from the vantage point of the University of Toronto Library. Its recommendations are solidly based on statistics and records that are regularly kept, and on some special samples and analyses.

Copies of the Brief are available upon request from the Chief Librarian, University of Toronto, Toronto 5, Ontario.

On July 5 the University of Toronto Library, acting on a decision made by the University's Library Council, instituted a new loan policy for faculty and staff members which permits automatic renewal of monographs until a final and annual due date. At that time all items must be returned physically to the Library.

At the same time new regulations also went into effect which permit the Library to fine faculty and staff if they do not return items upon the date due or upon request when needed by another borrower. Students and faculty members are fined at the same rate, which remains unchanged, 20 cents per day for each current serial, bound serial or monograph charged out.

On Oct. 1 MISS KATHARINE WALES, Head of the Reference Department since 1962, will assume new duties as special assistant to the Chief Librarian. In this capacity, until her retirement next June, she will collect and organize documentation for a history of the U of T Library. This assignment will use her long experience as a reference librarian as well as her familiarity with the University and its Library system.

Embargo on graduate programs discussed at first COU meeting

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and also, if possible, three of: History; Religion; Political Science; Business, Administration and Management Science; and Law.

The Ontario Council on Graduate Studies gives the following explanation:

History, Religion and Political Science have somewhat the same characteristics in considering priorities for planning assessments. In each case there is considerable planning of new doctoral programs in Ontario (and also new master's programs in Religion), there is some ferment in the nature of the discipline and concern about the fields of study appropriate to the subject and their relative cultivation in Ontario, and in the latter two at least there appears to be increasing undergraduate student interest. In two cases, there are appraised programs which appear to be embargoed. The employment situation differs in the three cases, but in each case merits early study. In History there is apparently a Ph.D. overproduction in the U.S.A., but not in Canada, and in some fields good young men remain hard to locate; on the other hand, although Canadian production has been low, there appears to be a brimful pipe-line but it is not clear to what extent it is flowing forward and to what extent it is leaking into the sands of the drop-out desert. In Political Science, there is thought to be need for substantially increased Canadian doctoral production, but again it is necessary to assess the size of the task in a detailed way. In Religion, there is good demand for university and college teachers, particularly those who use a less traditional methodology, but again there is a possibility of flooding the market in an uncoordinated expansion into a developing field.

Dr Crispo is acting director of Business

Dr. John H. G. Crispo, director of the Centre for Industrial Relations and professor for Industrial Relations at the School of Business, has been appointed acting director of the School for 1971-72 year. A Search Committee is to advise on the selection of a new director to replace Dr. Warren Main, who retired from that position on June 30, but who remains on the teaching staff.

Dr. Crispo also is a professor with the Department of Political Economy, a board member of the Industrial Relations Research Association, past presi-

dent of the Canadian Industrial Relations Research Institute; and an advisory board member of the Social Planning Council of Metro Toronto.

Business, Administration and Management Science are labels for a region of academic endeavour in which there has been considerable burgeoning of new programs in the last five years and in which more growth is currently planned in several cases at the doctoral level. There is considerable duplication of programs, but this may be justified on a regional basis. There is a substantial market for M.B.A.s, and considerable interest in M.P.A.s, and in graduates (engineers or others) from "quantitatively-oriented" master's programs. Just how many universities should cater to this market is a question that requires study, as does the question of size of the doctoral employment market and the disciplinary distribution and production rate of current doctoral programs. There is also at least one successfully appraised program under embargo.

Law is a subject in which there is very little graduate study in Canada. It is felt that this situation should be studied with a view to more complete educational opportunity. Law is not an embargoed discipline, but a planning assessment is felt to have high priority.

A standard format for planning assessments is being worked out.

The procedures outlined above apply to Master's and doctoral programs in the old universities. Different rules apply to proposals for Master's work at Brock, Lakehead, Laurentian and Trent.

It is important, the COU was told, while encouraging new approaches, to distinguish between "innovation" and "novelty". Novel ways of packaging fairly standard academic material are frequently encountered. Although they may be commendable, they do not justify the special support that truly innovative undertakings deserve.

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\$300 per month: 4 bedroom fully furnished split-level house for rent for 6-8 months from Jan. 1, 1972. Includes living room, family room, and basement; garden and garage. Commuter train to city. Apply 155 Kriehoff Ave., Unionville, Ont.; telephone 297-2199.

International Studies Program development over 5-year period

(Continued from page 1)

had some limited success in securing additional resources for specific activities. These have included a Rockefeller Foundation Grant of \$280,000 to finance the secondment of staff for one- or two-year periods to the three universities in East Africa and to the Universidad del Valle in Colombia. This grant covers the full cost of the secondments and provides research funds for the seconded staff and fellowship money for the occasional graduate student to accompany the seconded staff. Four staff members have been or are now on secondment under this grant: Prof. Peter Russell at Makerere University (1969-71); John Wayne at University of Dar-es-Salaam (1969-71); Prof. Jonathan Barker at University of Dar-es-Salaam (1970-72); and Prof. Kurt Levy at Universidad del Valle (1971-72). In addition, four Ph.D. students doing field research in East Africa have been supported from this grant. They are C. Leo, K. Laubstein, R. Pitblado and J. Steeves.

The Program has received a three-year grant of \$35,000 a year from the Department of National Defence to finance a Visiting Professorship. The arrangements have permitted the identification of this post as the Visiting Professorship of International Security Studies and have given the University of Toronto entire authority to select whom it wishes for this appointment. The Visiting Professorship was held for the years 1969-71 by Prof. Leland Goodrich, Professor Emeritus, Columbia University, and a leading authority on the United Nations. For 1971-72 Prof. Robert Cox will be here under these auspices. Mr. Cox is a professor at the Geneva Institute of International Studies and assistant director of the International Labour Office.

The International Studies Program has handled the arrangements for the attachment at the University of Toronto of the "Foreign Service Visitor", a senior officer of the Department of External Affairs who spends a sabbatical year at the University. The University has welcomed and benefitted from the participation in its activities of Arthur Andrews and Jack Parry who were here as foreign service visitors for 1969-70 and 1970-71 respectively.

Finally, the International Studies Program has received a grant of \$65,000 from the Varsity Fund to permit it to reinforce library holdings on modern China and to help finance the appointment by the Department of Political Economy of an economist with a major interest in modern China. T. G. Rawski was appointed to this position in July, 1971.

The University of Toronto's links with Africa have been reinforced by two successful projects in the University's Department of Political Economy, the first being managed by Prof. G. Helleiner and the second by Prof. D. Nowlan. The first is a Ford Foundation financed training program in economic development studies which brought to Toronto 16 graduates who are now working in economic planning or related positions in East African and other governments. The second, recently renewed, is a Canadian International Development Agency project to provide an advanced project analysis and evaluation team for the government of Tanzania, and to date 12 Canadians have participated in this program. These activities further enrich the over-all activities here relating to Africa and help to explain and to illustrate how this University has become one of the outstanding centres of scholarship on tropical African themes outside of Africa.

Inter-Disciplinary Co-Ordination and Co-Operation

"Modern International Studies" is no one's field. Even if pressed to give a broad definition, very few would be likely to define their areas of interest and competence in terms wider than, say, "Latin America" or "International Relations" or "Development Studies". Staff members and graduate students are interested in interdisciplinary activities

in regard to specific fields of study within the broad rubric of international studies. The I.S.P. has therefore brought into existence specialized committees corresponding to those specific fields in which there appears to be a sustained interest amongst a significant number of colleagues in several departments. There are at present six committees operating in the areas of African Studies, East Asian Studies, European Studies, International Relations, Latin American Studies and South Asian Studies. In the past there was a Peace Research Committee. These committees provide a means whereby colleagues who share a major interest can hold interdisciplinary seminars and conferences, plan interdisciplinary graduate courses, consider joint research projects, prepare draft submissions for external financial support, and offer advice to departments about possible new appointments and to the Library about the further developments of its holdings in their field.

Each year some 45 lectures and seminars have been sponsored by these committees as well as several extended conferences. The subjects varied from broad policy issues to topics that are specialized, even esoteric. They represent an important contribution to the intellectual life of the University and they have contributed significantly to the development of closer relations between scholars in different disciplines who share a common interest in an area of study within modern international studies.

Membership in the International Studies Program is accomplished through membership in one or other of the specialized committees. Membership in these committees is open to any full- or part-time staff member who is teaching within that area of modern international studies represented by the title of the committee or who is or has engaged in research within this same field of study; any graduate student whose major field of study is within the area of modern international studies represented by the title of the committee; and any staff member or graduate student working in related areas of study within a sustained academic interest also in an international field.

The University of Toronto now has an outstanding concentration of scholars in international studies. The I.S.P. brochure lists 121 academic staff members in the Departments of Anthropology, Economics, Education, Geography, History, Law, Political Science and Sociology who specialize in international aspects of their disciplines. Nearly all of these people have done research abroad, and about one-third of them have spent extended periods teaching or working as advisers in foreign countries.

For further information, or a copy of the brochure, write or phone the I.S.P., 158 St. George Street, Room 403, Toronto. 928-3350.

EXHIBITIONS

Beginning Oct. 1, ROM will be open until 9 p.m. daily except Mondays. Tues. to Sat., 10 a.m. to 9 p.m.; Sun. 1 to 9 p.m. and Mon. 10 a.m. to 5 p.m.

"Omens of Disaster". McLaughlin Planetarium. To Nov. 28. Tuesday to Friday, 3.30 and 8 p.m.; Saturday, 11 a.m., 2, 3.30, 5, and 7.30 p.m.; Sunday, 2, 3.30, 5, and 7.30 p.m. Children under six not admitted to the Theatre.

"Keep Me Warm One Night". Major exhibition of handweaving in early Canada. More than 500 items on display offer fascinating detail of social customs in Canada before 1900. Exhibition Hall, ROM. To Oct. 31.

"People of the North Portraits by Susan Ross". Travels to Pond Inlet, North Baffin and northern regions of Ontario and Manitoba provided Susan Ross with strong subjects for her portraits. Lower Rotunda, ROM. To Oct. 31.

"The Woodcut: From Durer to the 20th Century". To honour the 500th anniversary of Durer's birth, the showing from ROM's European print collection follows the development of the woodcut. Third floor Rotunda, ROM. To Oct. 31.

STAFF NOTES

(Continued from page 3)

Music

DEAN J. BECKWITH addressed the annual convention of the Royal Canadian College of Organists in Kitchener, on Aug. 26 on "Music and the Children of Peace".

Ontario Institute for Studies in Education

DR. D. OLSON attended a symposium on "Instruction As Suggestology" in Varna, Bulgaria, June 5-10. His paper was entitled "Aspects of A Theory of Instruction: Why Different Forms of Instruction Result in Equivalent Knowledge".

DR. D. HUNT presented a paper entitled "Education for Interdisciplinary Understanding", at the Centennial Symposium on Interdisciplinary Education at Southern Illinois University, Edwardsville, May 17-18.

DR. DORIS W. RYAN spoke to the principals, consultants, and superintendents of the Lincoln County Separate School Board in St. Catharines on June 8. The topic of her address was "Improving Teacher and Principal Relationships".

Social Work

DR. BENJAMIN SCHLESINGER acted as evaluator for a new Ph.D. proposal for the School of Social Work, State University of New York, Albany, on Feb. 3-5.

MRS. SARA WAYMAN in February was elected to membership in the Vanier Institute of the Family.

From Nov. 9 to 18 DR. C. H. BEATON participated as a consultant in the eighth meeting of the Joint FAO/WHO Export Committee on Nutrition in Geneva. At that meeting the committee considered international aspects of food fortification and also reviewed the current knowledge of protein-calorie malnutrition, offering its recommendation to the family of United Nations Agencies. Dr. Beaton is serving as a member of the FAO/WHO Expert Group on Energy and Protein Requirements which is meeting in Rome from March 22 to April 2.

DR. DONALD BELLAMY participated in a conference of teachers in social administration at Rutgers University, April 1-2.

Hygiene

DR. R. J. SHEPARD attended the International Union of Physiological Sciences Meeting in Munich, July 21-25, presenting a paper entitled "The Exercise Dead Space - A Role for Laminar Flow", and serving on the I.V.P.S. Glossary Committee. Dr. Shepard also attended the I.V.P.S. Satellite Symposium on Physical Fitness in Prague, presenting (with A. RODE) a paper entitled "An I.B.P. Study of Working Capacity in the Canadian Eskimo", and (with C. GODIN) a film entitled "Energy Expenditure in the Igloolik Eskimo". While in Prague, he also served as rapporteur to an I.B.P. working party on "The Fitness of Primitive Communities", and as consultant to a World Health Organization working group on "The Measurement of Habitual Activity".

Computer Science

PROF. C. C. GOTTLIEB participated in the 40th Annual Couchiching Conference on "PRIVACY & . . ." held at Geneva Park Aug. 4 to 8, and presented an invited paper on "Privacy and Computers".

PROF. T. E. HULL presented an invited paper "On Proving the Correctness of Computer Programs for the Numerical Integration of Ordinary Differential Equations" at the SIAM 1971 national meeting in Seattle, June 28-30.

Maureen Forrester joins Music faculty

The internationally renowned Canadian contralto, Maureen Forrester, has joined the Faculty of Music to instruct in voice in the Performance Department.

Miss Forrester has been teaching at the Philadelphia Academy and has given successful Master Classes in several centres including Toronto. During this session she will teach a limited quota of students, which has already been filled.

Miss Forrester has been heard by audiences on five continents in concert, with orchestra, and most recently in opera. She has sung with orchestras conducted by Bruno Walter, Herbert von Karajan, Otto Klemperer, George Szell, Leonard Bernstein, Eugene Ormandy, Josef Krips, William Steinberg, Zubin Mehta and Seiji Ozawa.

ARTHUR SEDGWICK presented a paper, "Comparing Numerical Methods for Ordinary Differential Equations" (as co-author with T. E. HULL, W. H. ENRIGHT and B. M. FELLE) at the SIAM 1971 meeting.

Connaught Medical Research Laboratories

At the second International Congress for Virology, in Budapest, June 27-July 3, Dr. P. FENJE presented a paper, as co-author with J. D. SPARKES, on "The Effect of Residual Moisture in Lyophilized Smallpox Vaccine on its Stability at Various Temperatures".

At the 21st International Tuberculosis Conference, held in Moscow, July 12-16, Dr. C. E. SIEBENMANN presented a paper (co-author, C. BARBARA) entitled "Determination of Minimal Effective Doses of BCC Vaccines in Experimental Tuberculosis in Mice and in Guinea-pigs".

At the First International Congress of Immunology in Washington, Aug. 1-6, Dr. S. WILSON participated in the meetings, as a member of the Standardization Committee of the International Union of Immunological Societies, and in Workshops on Adjuvants, Immunological Enhancement, and Antilymphocyte Serum.

At the annual meeting in Halifax, May 31, DR. DAVID IVES and DR. HILDA MACMORINE were elected Fellows of the Chemical Institute of Canada.

DR. S. LANDI was invited to participate at the Third Conference on Evaluation of Procedures for Tuberculin Testing in Atlanta, Ga. May 4, where he presented two papers as co-author with DR. H. R. HELD, M. C. TSENG and J. D. SPARKES, entitled "Disparity of Potency Between Stabilized and Non-Stabilized Dilute Tuberculin Solutions" and "Standardization of a Large New Batch of Purified Tuberculin". Dr. Landi was also invited to participate at the First International Symposium on Tuberculin, Mycobacterial Antigens and Immunity to Tuberculosis, in Siena, Italy, May 7-9, where he presented a paper as co-author with Dr. Held entitled "Present Status of Tuberculin".

From May 11 to 15, DR. S. WILSON was the guest of the German Diabetes Association in Düsseldorf, where he attended a workshop on Chemically Modified Insulins and participated in a symposium on the same subject at the 1971 meeting of the Association. In January, Dr. Wilson was nominated a member of the Standardization Committee of the International Union of Immunological Societies.

At a conference on problems related to fibrinolysis, convened by the University of Milan, at Capo Boi, Sardinia, May 24-30, DR. W. H. E. ROSCHLAU presented a paper, "Thrombolytic Properties and Side Effects of Brinase in the Dog".

At the annual meeting of the Canadian Federation of Biological Societies, in Toronto, June 18, DR. P. MOLONEY presented a paper, as co-author with Miss SUSAN JACKSON, entitled "Further Observations on Induction of Immunotolerance to Insulin".

Computer Courses

The Computer Centre is again offering free computer courses, consisting of films and lectures.

Films are as follows: Data Processing Principles, Oct. 5; Sequential File Organization, Oct. 12-15; Direct Access File Organization, Oct. 14-15. All are at 4 p.m. in room 248 Galbraith Building.

The lectures are in the Sandford Fleming Building (room numbers in brackets) and are: Basic Job Control Language, Oct. 5-6 at 5 p.m. (135); Basic Fortran, Oct. 12-15, at 5 p.m. (132); JCL for Disk and Tape, Oct. 18-19 at 1 p.m. (135); Fundamentals of PL-1, Oct. 21-22 at 5 p.m. (132); Introduction to PL/1 Programming, Oct. 25-29 at 5 p.m. (132).

The following courses will be offered during November and December: Basic Fortran; Intermediate Fortran; Intermediate PL/1 and PL/1 for Fortran Programmers; Introduction to Assembler; Reading Core Dumps; and How to Use Utilities.

A coffee party is being given to get users together to acquaint them with services and facilities. Graduate students are invited for Friday, Oct. 1, to the Council Room, Galbraith Building, at 2 p.m. (Faculty and staff party has been held).